

# **RTI Development Update**

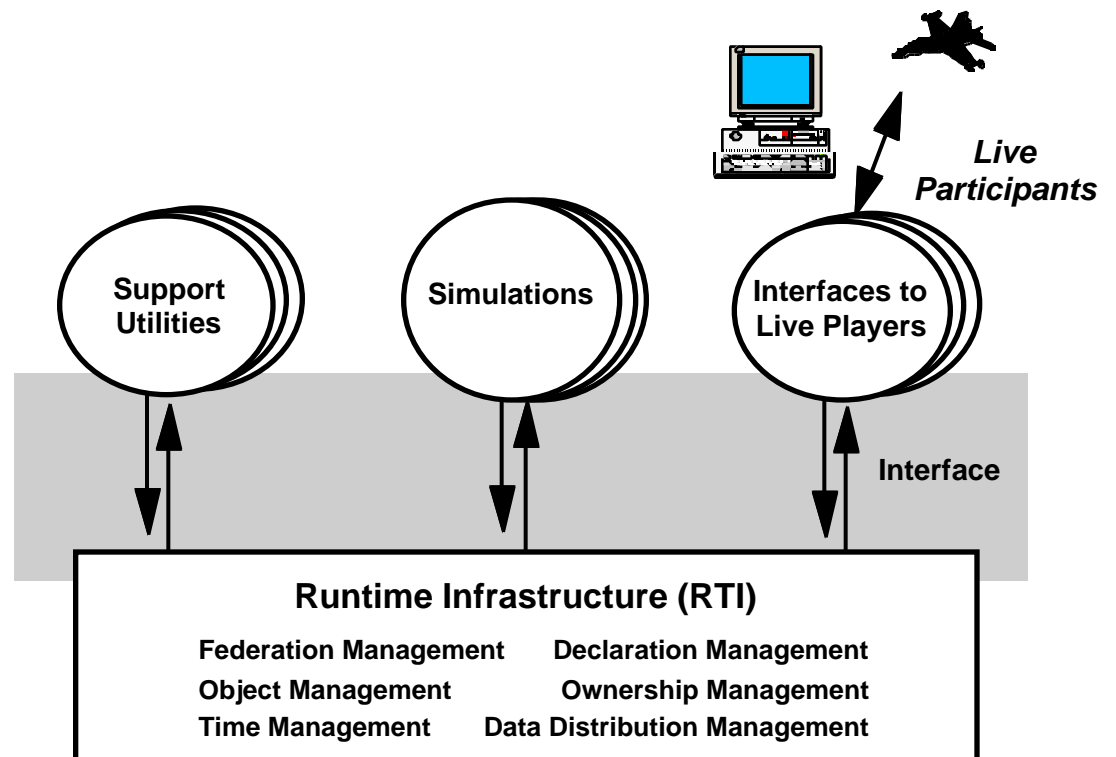
**18 June 1997**

# The High Level Architecture (HLA)

- Architecture calls for a federation of simulations

- Architecture specifies

- Ten rules
  - define relationships among federation components
- Object Model Template
  - specifies the form in which simulation elements are described
- Runtime Interface Specification
  - describes the ways simulations interact during an operation



*The HLA is an architecture and does not mandate a specific software implementation*

# Overall Plan

- **Baseline Prototype Development (“X series” RTI)**
  - **Objective: support HLA baseline definition**
    - **definition of runtime services and interface specification for HLA 1.0 Specification**
  - **Supported all protofederations and experiments**
  - **Retired in Sept 1996 with acceptance of baseline architecture**
- **RTI 1.0 (“F.0-1.0 series”)**
  - **Government developed software; open distribution**
  - **Support for full set of HLA runtime interfaces**
  - **Support transition to HLA**
- **RTI 2.0**
  - **Industry/competitive build**
  - **Support standard HLA interfaces**
  - **Open distribution**

# **RTI F.0/1.0 Status and Plans**

- **RTI F.0**
  - **Sun/Solaris version released 16 December 1996**
  - **SGI/Irix version released 10 March 1997**
  - **Windows NT 4.0 version to be released 15 April 1997**
  - **HP/HPUX10.X version released 15 May 1997**
  - **Majority of Interface Specification functions (no Control Update/Interaction, Save/Resume, DDM services)**
- **RTI 1.0**
  - **Sun/Solaris 2.5 version released 15 May 1997**
  - **SGI/Irix released June 1997**
  - **Ports to Windows NT, HP/HPUX to follow**
  - **All services except DDM (e.g., routing spaces)**
  - **JAVA release anticipated for September 1997**
    - **New implementation rather than a cap/binding**

# RTI F.0/1.0 Status and Plans

- **RTI 1.1**
  - **All services (including DDM)**
  - **Fall '97 release**
  - **IF Spec 1.2, assuming approval at AMG-18**
  - **Leverage STOW implementation experience**
    - **Experimentation underway to develop design and implementation plans**
  - **Phased delivery as with earlier releases, as indicated by AMG discussion in April**
    - **Sun Solaris first followed by ports to other platform/OS**

# RTI 2.0 Status

- **Competitive award for designs**
  - **BAA with STRICOM as the COTR**
  - **Design contractors are:**
    - **SAIC - Arlington, VA**
    - **LADS - Burlington, MA**
  - **Timeline**
    - **1 October 1996 - BAA issued**
    - **30 January 1997 - Design awards**
    - **6 February, 10 February 1997 - Kickoff meetings**
    - **12 March, 13 March - One month checkpoint meetings**
    - **June 1997 - Anticipated date for final design submissions**
  - **BAA, not a competition**
    - **Follow-on awards for software design based on technical assessment of designs**

# RTI SW Distribution

- **Runtime Infrastructure (RTI) software distribution process has been streamlined**
- **Order from DMSO homepage (<http://www.dmsso.mil/hla>)**
  - **fill out form and submit**
  - **you will get confirmation by return email with FTP address and password for download**
  - **once registered you will be automatically notified of new releases**
- **Release includes both RTI SW and support documentation and software**
- **On-line support for RTI users [(703) 978-7733 or [rti\\_support @msis.dmsso.mil](mailto:rti_support@msis.dmsso.mil)]**

# RTI F.0/1.0 Package

- **RTI Header Files**
- **RTI Object Libraries**
- **Demonstration Programs**
  - JAGER ('Just A Game to Exploit the RTI')
  - Test Federate
  - Hello World
- **Documentation**
  - Installation guide
  - Programmer's guide
- **I/F Specification 1.1 HTML Browser**
- **C++ API HTML Browser**